

Amendments to the Claims

This listing of claims will replace the originally filed claims in the application.

Listing of Claims:

Claims 1 – 12 (cancelled)

Claim 13 (new): A device for injecting a gas into a liquid, comprising an auto-suction turbine for producing a gas-liquid dispersion, an axial flow rotor for collecting said dispersion, and means for sending the gas-liquid dispersion to said axial flow rotor, wherein said means comprise deflecting means incorporated in the auto-suction turbine.

Claim 14 (new): The device of claim 13, wherein said deflecting means consist of an upper member, called deflecting member, of the auto-suction turbine, having a larger diameter than that of a lower member of said turbine and a profile suitable for deflecting said dispersion toward the axial flow rotor.

Claim 15 (new): The device of claim 14, wherein said deflecting member has a conical profile.

Claim 16 (new): The device of claim 15, wherein said conical profile makes an angle of between 30° and 40° with the horizontal plane.

Claim 17 (new): The device of claim 14, wherein said deflecting member comprises an annular flap.

Claim 18 (new): The device of claim 17, wherein said annular flap has a frustoconical profile.

Claim 19 (new): The device of claim 17, wherein said annular flap has a rounded profile.

Claim 20 (new): The device of claim 14, wherein said deflecting member is a member with a convex profile.

Claim 21 (new): The device of claim 20, wherein said convex profile is an elliptical profile.

Claim 22 (new): The device of claim 13, wherein the means for sending the gas-liquid dispersion to said axial flow rotor further comprise substantially vertical counterblades, arranged radially to the auto-suction turbine and to the axial flow rotor.

Claim 23 (new): The device of claim 22, wherein the counterblades have upper notches designed to enable the deflecting member of the auto-suction turbine to penetrate therein.

Claim 24 (new): The device of claim 22, wherein the counterblades have lower notches designed to enable the axial flow rotor to penetrate therein.